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ABSTRACT

This volume focuses on Student-Scientist Partnerships (SSPs) and illustrates the workings and effectiveness of this new paradigm and growing force in science education. The chapters are: chapter 1, "Student-Scientist Partnerships: Shrewd Maneuvers" (Robert F. Tinker); chapter 2, "The GLOBE Program: A Model for International Environmental Education" (Barrett N. Rock, Tommie R. Blackwell, Danielle Miller, and Anne Hardison); chapter 3, "FeederWatch: An Example of a Student-Scientist Partnership" (Rick Bonney and Andre A. Dhondt); chapter 4, "The Science that Happens through Partnerships: Sun Photometer Atmospheric Network (SAN)" (Forrest M. Mims, III); chapter 5, "The Aquanaut Program" (Ivar G. Babb, Peter M. Schneifele, and Domenic Tedeschi); chapter 6, "EARTHWATCH: Science Education Worldwide" (Rachel Nixon); chapter 7, "Mars Exploration: Students and Scientists Working Together" (Daniel Barstow and Cheick Diarra); chapter 8, "Validating Student Data for Scientific Use: An Example from the GLOBE Program" (Russell G. Congalton and Mimi L. Becker); chapter 9, "Student Data Acquisition: An Important Component of Student-Scientist Partnerships" (Alice B. Krueger, Patrick D. French, and Thomas G. Carter); chapter 10, "Role of Technology in Student-Scientist Partnerships: Perspective from the National Science Foundation" (M. Patricia Morse and Nora H. Sabelli); chapter 11, "Science Education as Driver of Cyberspace Technology Development" (Roy D. Pea, Louis M. Gomez, Daniel C. Edelson, Barry J. Fishman, Douglas N. Gordin, and D. Kevin O'Neil); and chapter 12, "Image Processing: An Enabling Technology for Science Research, Teaching, and Learning" (Richard Greenberg). Individual chapters contain references. (DKM)

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